ELSEVIER

1 November 1996

Optics Communications 131 (1996) 419–424

OPTICS COMMUNICATIONS

Author index to volume 131

Agrawal, G.P., see Essiambre, R.-J. 131 (1996) 274
Aguilar, M., see Nolte, D.D. 131 (1996) 119
Akhmediev, N., W. Królikowski and A.J. Lowery, Influence of the Raman-effect on solitons in optical fibers 131 (1996) 260
Antonetti, A., see Curley, P.F. 131 (1996) 72
Aparna, C.S., S. Kumar and A. Selvarajan, Suppression of the soliton frequency shifts by nonlinear pairing of pulses 131 (1996) 267
Artigas, D., J. Olivas, F. Dios and F. Canal, Supermode analysis of the three-waveguide nonlinear directional coupler: the critical power 131 (1996) 53
Artoni, M., see Jeffers, J. 131 (1996) 66
Asakura, T., see Dogariu, M. 131 (1996) 1
Ashworth, D.G., see Batchelor, S. 131 (1996) 31

Baigar, E., see Hauger, C. 131 (1996) 351
Balle, S., see Homar, M. 131 (1996) 380
Balmer, J.E., see Graf, Th. 131 (1996) 77
Barnett, S.M., see Jeffers, J. 131 (1996) 66
Batchelor, S., R. Oven and D.G. Ashworth, Reconstruction of refractive index profiles from multiple wavelength mode indices 131 (1996) 31
Belić, M.R., see Leonardy, J. 131 (1996) 279
Birge, R.R., see Gu, L.-Q. 131 (1996) 25
Blair, D.G., see Taylor, C.T. 131 (1996) 311
Brosseau, C., Mueller matrix analysis of light depolarization by a linear optical medium 131 (1996) 229
Buse, K., F. Havermeyer, L. Glabasnia, K. Schlömp and E. Krätzig, Quadratic polarization-optic coefficients of cubic $KTa_{1-x}Nb_xO_3$ crystals 131 (1996) 339
Butterworth, S.D., W.A. Clarkson, N. Moore, G.J. Friel and D.C. Hanna, High-power quasi-cw laser pulses via high-gain diode-pumped bulk amplifiers 131 (1996) 84

Canal, F., see Artigas, D. 131 (1996) 53
Carrascosa, M., see del Pino, M. 131 (1996) 211
Chambaret, J.P., see Curley, P.F. 131 (1996) 72
Chen, C., see Zhang, S. 131 (1996) 246
Chériaux, G., see Curley, P.F. 131 (1996) 72
Chowdhury, D.Q., S.C. Hill and M. Mazumder, Absorptive bistability in a dielectric sphere 131 (1996) 343
Clarkson, W.A., see Butterworth, S.D. 131 (1996) 84
Cohen, A., see Lann, A.F. 131 (1996) 307
Cooper, J., see Guo, J. 131 (1996) 219

Curley, P., see Le Blanc, C. 131 (1996) 391
Curley, P.F., C. Le Blanc, G. Chériaux, G. Darpentigny, P. Rousseau, F. Salin, J.P. Chambaret and A. Antonetti, Multi-pass amplification of sub-50 fs pulses up to the 4 TW level 131 (1996) 72

de Fornel, F., see Rahmani, A. 131 (1996) 253
del Pino, M., J. Limeres and M. Carrascosa, Time evolution of the photorefractive phase conjugation process in $BaTiO_3$ 131 (1996) 211
D'Alessandro, G., A.J. Kent and G.-L. Oppo, Centre manifold reduction of laser equations with transverse effects: an approach based on modal expansion 131 (1996) 172
Darpentigny, G., see Curley, P.F. 131 (1996) 72
Delong, K.W., see Luther-Davies, B. 131 (1996) 301
Deng, X., Y. Li, Y. Qiu and D. Fan, Diffraction interpreted through fractional Fourier transforms 131 (1996) 241
Deutsch, M., see Lann, A.F. 131 (1996) 307
Ding, Y., see Dou, S.X. 131 (1996) 322
Dios, F., see Artigas, D. 131 (1996) 53
Dogariu, M. and T. Asakura, Polarized light scattering in dielectric layers with rough interfaces 131 (1996) 1
Dorsinville, R., see Priestley, R. 131 (1996) 347
Dötsch, H., see Shamonin, M. 131 (1996) 37
Dou, S.X., Y. Ding, H.J. Eichler, Y. Zhu and P.X. Ye, Temperature dependent photorefractive properties of a Ce-doped $BaTiO_3$ crystal 131 (1996) 322
Dou, S.X., see Zhang, J. 131 (1996) 95

Eichler, H.J., see Dou, S.X. 131 (1996) 322
Essiambre, R.-J. and G.P. Agrawal, Timing jitter analysis for optical communication systems using ultrashort solitons and dispersion-decreasing fibers 131 (1996) 274

Fan, D., see Deng, X. 131 (1996) 241
Ferstl, M., see Galloway, P.C.M. 131 (1996) 371
Ford, H.D. and R.P. Tatam, Multiplexed sensor network employing birefringent-fibre WDMs 131 (1996) 290
Friel, G.J., see Butterworth, S.D. 131 (1996) 84

Gallagher, A., see Guo, J. 131 (1996) 219
Galloway, P.C.M., M. Ferstl, B. Kuhlow, E. Pawlowski and G. Przyrembel, Segmented Fresnel zone lens elements with several primary foci 131 (1996) 371
Gao, H., see Zhang, J. 131 (1996) 95
Glabasnia, L., see Buse, K. 131 (1996) 339
Golub, J.E., see Lann, A.F. 131 (1996) 307
Graf, Th. and J.E. Balmer, Laser beam quality, entropy and the limits of beam shaping 131 (1996) 77
Gross, B., see Manassah, J.T. 131 (1996) 408
Grynberg, G., see Guibal, S. 131 (1996) 61
Gu, L.-Q., C.-P. Zhang, A.-F. Niu, J. Li, G.-Y. Zhang, Y.-M. Wang, M.-R. Tong, J.-L. Pan, Q.W. Song, B. Parsons and R.R. Birge, Bacteriorhodopsin based photonic logic gate and its applications to grey level image subtraction 131 (1996) 25
Guibal, S., C. Triché, L. Guidoni, P. Verkerk and G. Grynberg, Recoil-induced resonances of cesium atoms in the transient domain 131 (1996) 61

Guidoni, L., see Guibal, S. 131 (1996) 61
Guo, J., A. Gallagher and J. Cooper, Lorentz-Lorenz shift in an inhomogeneously broadened medium 131 (1996) 219

Hamam, H., Design of Talbot array illuminators 131 (1996) 359
Hanna, D.C., see Butterworth, S.D. 131 (1996) 84
Hartmann, S.R., see Moshary, F. 131 (1996) 327
Hauger, C., E. Baigar, T. Wilhelm and W. Zinth, Time-resolved backscattering of femtosecond pulses from scattering media – an experimental and numerical investigation 131 (1996) 351
Havermeyer, F., see Buse, K. 131 (1996) 339
Heckenberg, N.R., see Tang, D.Y. 131 (1996) 89
Hertel, P., see Shamonin, M. 131 (1996) 37
Hill, S.C., see Chowdhury, D.Q. 131 (1996) 343
Homar, M., S. Balle and M. San Miguel, Mode competition in a Fabry-Perot semiconductor laser: travelling wave model with asymmetric dynamical gain 131 (1996) 380
Huang, W., see Lü, B. 131 (1996) 223

Imamoğlu, A., see Schmidt, H. 131 (1996) 333

Jeffers, J., S.M. Barnett, R. Loudon, R. Matloob and M. Artoni, Canonical quantum theory of light propagation in amplifying media 131 (1996) 66
Jones, D.R., S.M. O'Shaughnessy and D.C. Lainé, Enhanced operation of a CW optically pumped molecular iodine cell laser operating in the visible and near-infrared spectrum 131 (1996) 203

Kadono, H., see Uma Maheswari, R. 131 (1996) 133
Kaindl, R.A., see Sueptitz, M. 131 (1996) 195
Kaiser, F., see Leonardy, J. 131 (1996) 279
Kent, A.J., see D'Alessandro, G. 131 (1996) 172
Kong, F., see Lü, B. 131 (1996) 223
Krätzig, E., see Buse, K. 131 (1996) 339
Królikowski, W., see Akhmediev, N. 131 (1996) 260
Kryuchkyan, G.Yu. and A.S. Sargsian, Anomalous behavior of the atomic populations in a squeezed vacuum: decay of Floquet states 131 (1996) 143
Kuhlow, B., see Galloway, P.C.M. 131 (1996) 371
Kumar, S., see Aparna, C.S. 131 (1996) 267

Lahiri, I., see Nolte, D.D. 131 (1996) 119
Lainé, D.C., see Jones, D.R. 131 (1996) 203
Lann, A.F., M. Deutsch, J.E. Golub and A. Cohen, Kerr lens mechanism in a waveguide laser 131 (1996) 307
Le Blanc, C., P. Curley and F. Salin, Gain-narrowing and gain-shifting of ultra-short pulses in Ti: sapphire amplifiers 131 (1996) 391
Le Blanc, C., see Curley, P.F. 131 (1996) 72
Leonardy, J., F. Kaiser, M.R. Belić and D. Timotijević, Oscillation versus amplification in double phase conjugation 131 (1996) 279
Lettenberger, M. and K. Wolfrum, Optimized Kerr lens mode-locking of a pulsed Nd:KGW laser 131 (1996) 295

Li, J., see Gu, L.-Q. 131 (1996) 25
Li, Y., see Deng, X. 131 (1996) 241
Limeres, J., see del Pino, M. 131 (1996) 211
Lohmeyer, M., see Shamonin, M. 131 (1996) 37
Loudon, R., see Jeffers, J. 131 (1996) 66
Love, G.D., The unbounded nature of geometrical and dynamical phases in polarization optics 131 (1996) 236
Lowery, A.J., see Akhmediev, N. 131 (1996) 260
Lü, B., W. Huang, B. Zhang, F. Kong and Q. Zhai, Focusing properties of Bessel beams 131 (1996) 223
Lutgen, S., see Sueptitz, M. 131 (1996) 195
Luther-Davies, B., M. Samoc, J. Swiatkiewicza, A. Samoc, M. Woodruff, R. Trebino and K.W. Delong, Diagnostics of femtosecond laser pulses using films of poly(*p*-phenylenevinylene) 131 (1996) 301

Manassah, J.T. and B. Gross, Pulse reflectivity at a dense-gas–dielectric interface 131 (1996) 408
Mann, A.G., see Taylor, C.T. 131 (1996) 311
Mann, M., see McClelland, T.E. 131 (1996) 315
Matloob, R., see Jeffers, J. 131 (1996) 66
Matsko, A.B., E.A. Zubova and S.P. Vyatchanin, The value of the force of radiative friction 131 (1996) 107
Mazumder, M., see Chowdhury, D.Q. 131 (1996) 343
McClelland, T.E., D.J. Webb, B.I. Sturman, E. Shamonina, M. Mann and K.H. Ringhofer, Excitation of higher spatial harmonics by a moving light pattern in sillenites 131 (1996) 315
Minjie, X., see Xinbing, W. 131 (1996) 41
Moore, N., see Butterworth, S.D. 131 (1996) 84
Moshary, F. and S.R. Hartmann, Determination of inhomogeneous character of optical transitions in CdSSe semiconductor nanocrystals at band edge at 300 K 131 (1996) 327

Newson, T.P., see Wait, P.C. 131 (1996) 285
Niu, A.-F., see Gu, L.-Q. 131 (1996) 25
Nolte, D.D., I. Lahiri and M. Aguilar, Photorefractive Stark-geometry quantum wells: diffraction nonlinearities and displacement currents 131 (1996) 119
Notcutt, M., see Taylor, C.T. 131 (1996) 311
Nuss, M.C., see Ozaktas, H.M. 131 (1996) 114

Ohtsu, M., see Uma Maheswari, R. 131 (1996) 133
Olivas, J., see Artigas, D. 131 (1996) 53
Oppo, G.-L., see D'Alessandro, G. 131 (1996) 172
O'Shaughnessy, S.M., see Jones, D.R. 131 (1996) 203
Oven, R., see Batchelor, S. 131 (1996) 31
Ozaktas, H.M. and M.C. Nuss, Time-variant linear pulse processing 131 (1996) 114

Pan, J.-L., see Gu, L.-Q. 131 (1996) 25
Parsons, B., see Gu, L.-Q. 131 (1996) 25
Pawlowski, E., see Galloway, P.C.M. 131 (1996) 371
Petrov, D.V., Nonlinear phase shift by cascaded quasi-phase-matched second harmonic generation 131 (1996) 102
Porras, M.A., Moment-method evaluation of the angular and lateral shifts of reflected light beams 131 (1996) 13

Priestley, R., A.D. Walser, R. Dorsinville, W.K. Zou, D.Y. Xu and N.-L. Yang, Experimental observation of the magnitude and sign of the third order optical nonlinearity in polydibutylstannane 131 (1996) 347
Przyrembel, G., see Galloway, P.C.M. 131 (1996) 371

Qiu, Y., see Deng, X. 131 (1996) 241
Qiyang, X., see Xinbing, W. 131 (1996) 41

Rahmani, A. and F. de Fornel, Near-field optical probing of fluorescent microspheres using a photon scanning tunneling microscope 131 (1996) 253
Riedle, E., see Sueptitz, M. 131 (1996) 195
Ringhofer, K.H., see McClelland, T.E. 131 (1996) 315
Rousseau, P., see Curley, P.F. 131 (1996) 72

Salin, F., see Curley, P.F. 131 (1996) 72
Salin, F., see Le Blanc, C. 131 (1996) 391
Samoc, A., see Luther-Davies, B. 131 (1996) 301
Samoc, M., see Luther-Davies, B. 131 (1996) 301
San Miguel, M., see Homar, M. 131 (1996) 380
Sargsian, A.S., see Kryuchkyan, G.Yu. 131 (1996) 143
Schlömp, K., see Buse, K. 131 (1996) 339
Schmidt, H. and A. Imamoğlu, Nonlinear optical devices based on a transparency in semiconductor intersubband transitions 131 (1996) 333
Selvarajan, A., see Aparna, C.S. 131 (1996) 267
Sergeyev, S.V., Orientational-relaxation dependent bichromatic operations of a ring cavity dye laser with polarized pumping 131 (1996) 399
Shamonin, M., M. Lohmeyer, P. Hertel and H. Dötsch, Optimization of a nonreciprocal phase shifter comprising a magneto-optic slab waveguide 131 (1996) 37
Shamonina, E., see McClelland, T.E. 131 (1996) 315
Shi, C.-X., A novel pulsed fiber-optic rotation sensor with opto-electronic feedback 131 (1996) 47
Song, Q.W., see Gu, L.-Q. 131 (1996) 25
Sturman, B.I., see McClelland, T.E. 131 (1996) 315
Sueptitz, M., R.A. Kaindl, S. Lutgen, M. Woerner and E. Riedle, 1 kHz solid state laser system for the generation of 50 fs pulses tunable in the visible 131 (1996) 195
Swain, S., see Zhou, P. 131 (1996) 153
Swiatkiewicza, J., see Luther-Davies, B. 131 (1996) 301

Tang, D.Y. and N.R. Heckenberg, Spontaneous self-organisation in chaotic laser mode–mode interaction 131 (1996) 89
Tatam, R.P., see Ford, H.D. 131 (1996) 290
Taylor, C.T., M. Notcutt, E.K. Wong, A.G. Mann and D.G. Blair, Measurement of the coefficient of thermal expansion of a cryogenic, all-sapphire, Fabry-Perot optical cavity 131 (1996) 311
Timotijević, D., see Leonardy, J. 131 (1996) 279
Tong, M.-R., see Gu, L.-Q. 131 (1996) 25
Trebino, R., see Luther-Davies, B. 131 (1996) 301
Triché, C., see Guibal, S. 131 (1996) 61

Uma Maheswari, R., H. Kadono and M. Ohtsu, Power spectral analysis for evaluating optical near-field images of 20 nm gold particles 131 (1996) 133

Verkerk, P., see Guibal, S. 131 (1996) 61
Vyatchanin, S.P., see Matsko, A.B. 131 (1996) 107

Wait, P.C. and T.P. Newson, Reduction of coherent noise in the Landau Placzek ratio method for distributed fibre optic temperature sensing 131 (1996) 285
Walser, A.D., see Priestley, R. 131 (1996) 347
Wang, S., see Zhao, D. 131 (1996) 8
Wang, Y.-M., see Gu, L.-Q. 131 (1996) 25
Webb, D.J., see McClelland, T.E. 131 (1996) 315
Wilhelm, T., see Hauger, C. 131 (1996) 351
Woerner, M., see Sueptitz, M. 131 (1996) 195
Wolfrum, K., see Lettenberger, M. 131 (1996) 295
Wong, E.K., see Taylor, C.T. 131 (1996) 311
Woodruff, M., see Luther-Davies, B. 131 (1996) 301
Wu, W., see Yang, C. 131 (1996) 21

Xinbing, W., X. Qiyang, X. Minjie and L. Zaiguang, Coupling losses and mode properties in planar waveguide resonators 131 (1996) 41
Xu, D.Y., see Priestley, R. 131 (1996) 347

Yang, C., W. Wu and P. Yeh, Implementation of a novel optical half-adder 131 (1996) 21
Yang, N.-L., see Priestley, R. 131 (1996) 347
Ye, P., see Zhang, J. 131 (1996) 95
Ye, P.X., see Dou, S.X. 131 (1996) 322
Yeh, P., see Yang, C. 131 (1996) 21

Zaiguang, L., see Xinbing, W. 131 (1996) 41
Zhai, Q., see Lü, B. 131 (1996) 223
Zhang, B., see Lü, B. 131 (1996) 223
Zhang, C.-P., see Gu, L.-Q. 131 (1996) 25
Zhang, G.-Y., see Gu, L.-Q. 131 (1996) 25
Zhang, J., S.X. Dou, H. Gao, Y. Zhu and P. Ye, Theory of plate-formed phase conjugators 131 (1996) 95
Zhang, S. and C. Chen, Optical implementation of programmable logic neural networks 131 (1996) 246
Zhao, D. and S. Wang, Comparison of transformation characteristics of linearly polarized and azimuthally polarized Bessel–Gauss beams 131 (1996) 8
Zhou, P. and S. Swain, Absorption spectrum of a two-level atom in a bad cavity with injected squeezed vacuum 131 (1996) 153
Zhu, Y., see Dou, S.X. 131 (1996) 322
Zhu, Y., see Zhang, J. 131 (1996) 95
Zinth, W., see Hauger, C. 131 (1996) 351
Zou, W.K., see Priestley, R. 131 (1996) 347
Zubova, E.A., see Matsko, A.B. 131 (1996) 107

ELSEVIER

1 November 1996

Optics Communications 131 (1996) 425–428

OPTICS COMMUNICATIONS

Subject index to volume 131

Propagation, diffraction and scattering

M. Dogariu and T. Asakura, Polarized light scattering in dielectric layers with rough interfaces 1

D. Zhao and S. Wang, Comparison of transformation characteristics of linearly polarized and azimuthally polarized Bessel–Gauss beams 8

M.A. Porras, Moment-method evaluation of the angular and lateral shifts of reflected light beams 13

D.D. Nolte, I. Lahiri and M. Aguilar, Photorefractive Stark-geometry quantum wells: diffraction nonlinearities and displacement currents 119

J. Guo, A. Gallagher and J. Cooper, Lorentz-Lorenz shift in an inhomogeneously broadened medium 219

B. Lü, W. Huang, B. Zhang, F. Kong and Q. Zhai, Focusing properties of Bessel beams 223

C. Brosseau, Mueller matrix analysis of light depolarization by a linear optical medium 229

G.D. Love, The unbounded nature of geometrical and dynamical phases in polarization optics 236

X. Deng, Y. Li, Y. Qiu and D. Fan, Diffraction interpreted through fractional Fourier transforms 241

C. Hauger, E. Baigar, T. Wilhelm and W. Zinth, Time-resolved backscattering of femtosecond pulses from scattering media – an experimental and numerical investigation 351

Optical information, image formation and analysis, optical computing

C. Yang, W. Wu and P. Yeh, Implementation of a novel optical half-adder 21

L.-Q. Gu, C.-P. Zhang, A.-F. Niu, J. Li, G.-Y. Zhang, Y.-M. Wang, M.-R. Tong, J.-L. Pan, Q.W. Song, B. Parsons and R.R. Birge, Bacteriorhodopsin based photonic logic gate and its applications to grey level image subtraction 25

R. Uma Maheswari, H. Kadono and M. Ohtsu, Power spectral analysis for evaluating optical near-field images of 20 nm gold particles 133

S. Zhang and C. Chen, Optical implementation of programmable logic neural networks 246

A. Rahmani and F. de Fornel, Near-field optical probing of fluorescent microspheres using a photon scanning tunneling microscope 253

H. Hamam, Design of Talbot array illuminators 359

P.C.M. Galloway, M. Ferstl, B. Kuhlow, E. Pawlowski and G. Przyrembel, Segmented Fresnel zone lens elements with several primary foci 371

Optical communications

S. Batchelor, R. Oven and D.G. Ashworth, Reconstruction of refractive index profiles from multiple wavelength mode indices 31

M. Shamonin, M. Lohmeyer, P. Hertel and H. Dötsch, Optimization of a nonreciprocal phase shifter comprising a magneto-optic slab waveguide 37

W. Xinbing, X. Qiyang, X. Minjie and L. Zaiguang, Coupling losses and mode properties in planar waveguide resonators 41

C.-X. Shi, A novel pulsed fiber-optic rotation sensor with opto-electronic feedback 47

D. Artigas, J. Olivas, F. Dios and F. Canal, Supermode analysis of the three-waveguide nonlinear directional coupler: the critical power 53

N. Akhmediev, W. Królikowski and A.J. Lowery, Influence of the Raman-effect on solitons in optical fibers 260

C.S. Aparna, S. Kumar and A. Selvarajan, Suppression of the soliton frequency shifts by nonlinear pairing of pulses 267

R.-J. Essiambre and G.P. Agrawal, Timing jitter analysis for optical communication systems using ultrashort solitons and dispersion-decreasing fibers 274

J. Leonardy, F. Kaiser, M.R. Belić and D. Timotijević, Oscillation versus amplification in double phase conjugation 279

P.C. Wait and T.P. Newson, Reduction of coherent noise in the Landau Placzek ratio method for distributed fibre optic temperature sensing 285

H.D. Ford and R.P. Tatam, Multiplexed sensor network employing birefringent-fibre WDMs 290

Atomic, molecular and plasma physics

S. Guibal, C. Triché, L. Guidoni, P. Verkerk and G. Grynberg, Recoil-induced resonances of cesium atoms in the transient domain 61

Quantum optics

J. Jeffers, S.M. Barnett, R. Loudon, R. Matloob and M. Artoni, Canonical quantum theory of light propagation in amplifying media 66

G.Yu. Kryuchkyan and A.S. Sargsian, Anomalous behavior of the atomic populations in a squeezed vacuum: decay of Floquet states 143

P. Zhou and S. Swain, Absorption spectrum of a two-level atom in a bad cavity with injected squeezed vacuum 153

Lasers

P.F. Curley, C. Le Blanc, G. Chériaux, G. Darpentigny, P. Rousseau, F. Salin, J.P. Chambaret and A. Antonetti, Multi-pass amplification of sub-50 fs pulses up to the 4 TW level 72

Th. Graf and J.E. Balmer, Laser beam quality, entropy and the limits of beam shaping 77

S.D. Butterworth, W.A. Clarkson, N. Moore, G.J. Friel and D.C. Hanna, High-power quasi-cw laser pulses via high-gain diode-pumped bulk amplifiers 84

D.Y. Tang and N.R. Heckenberg, Spontaneous self-organisation in chaotic laser mode–mode interaction 89

G. D'Alessandro, A.J. Kent and G.-L. Oppo, Centre manifold reduction of laser equations with transverse effects: an approach based on modal expansion 172

M. Sueptitz, R.A. Kaindl, S. Lutgen, M. Woerner and E. Riedle, 1 kHz solid state laser system for the generation of 50 fs pulses tunable in the visible 195

D.R. Jones, S.M. O'Shaughnessy and D.C. Lainé, Enhanced operation of a CW optically pumped molecular iodine cell laser operating in the visible and near-infrared spectrum 203

M. Lettenberger and K. Wolfrum, Optimized Kerr lens mode-locking of a pulsed Nd:KGW laser 295

B. Luther-Davies, M. Samoc, J. Swiatkiewicza, A. Samoc, M. Woodruff, R. Trebino and K.W. Delong, Diagnostics of femtosecond laser pulses using films of poly(*p*-phenylenevinylene) 301

A.F. Lann, M. Deutsch, J.E. Golub and A. Cohen, Kerr lens mechanism in a waveguide laser 307

C.T. Taylor, M. Notcutt, E.K. Wong, A.G. Mann and D.G. Blair, Measurement of the coefficient of thermal expansion of a cryogenic, all-sapphire, Fabry-Perot optical cavity 311

M. Homar, S. Balle and M. San Miguel, Mode competition in a Fabry-Perot semiconductor laser: travelling wave model with asymmetric dynamical gain 380

C. Le Blanc, P. Curley and F. Salin, Gain-narrowing and gain-shifting of ultra-short pulses in Ti : sapphire amplifiers 391

S.V. Sergeyev, Orientational-relaxation dependent bichromatic operations of a ring cavity dye laser with polarized pumping 399

Nonlinear optics

J. Zhang, S.X. Dou, H. Gao, Y. Zhu and P. Ye, Theory of plate-formed phase conjugators 95

D.V. Petrov, Nonlinear phase shift by cascaded quasi-phase-matched second harmonic generation 102

A.B. Matsko, E.A. Zubova and S.P. Vyatchanin, The value of the force of radiative friction 107

H.M. Ozaktas and M.C. Nuss, Time-variant linear pulse processing 114

M. del Pino, J. Limeres and M. Carrascosa, Time evolution of the photorefractive phase conjugation process in $BaTiO_3$ 211

T.E. McClelland, D.J. Webb, B.I. Sturman, E. Shamonina, M. Mann and K.H. Ringhofer, Excitation of higher spatial harmonics by a moving light pattern in sillenites 315

S.X. Dou, Y. Ding, H.J. Eichler, Y. Zhu and P.X. Ye, Temperature dependent photorefractive properties of a Ce-doped $BaTiO_3$ crystal 322

F. Moshary and S.R. Hartmann, Determination of inhomogeneous character of optical transitions in CdSSe semiconductor nanocrystals at band edge at 300 K 327

H. Schmidt and A. Imamoğlu, Nonlinear optical devices based on a transparency in semiconductor intersubband transitions 333

K. Buse, F. Havermeyer, L. Glabasnia, K. Schlömp and E. Krätzig, Quadratic polarization-optic coefficients of cubic $KTa_{1-x}Nb_xO_3$ crystals 339

D.Q. Chowdhury, S.C. Hill and M. Mazumder, Absorptive bistability in a dielectric sphere 343

R. Priestley, A.D. Walser, R. Dorsinville, W.K. Zou, D.Y. Xu and N.-L. Yang, Experimental observation of the magnitude and sign of the third order optical nonlinearity in polydibutylstannane 347

J.T. Manassah and B. Gross, Pulse reflectivity at a dense-gas–dielectric interface 408